IN THE CLAIMS

 (currently amended) A device for detecting a structure, to be applied to a substrate, comprising:

an illumination module:

a sensor unit, the sensor unit being provided on a device that applies the structure to the substrate, the sensor unit obtaining an image of an area of the substrate; and

an analytical unit placing a set of calipers over a set of data determined from the image, whereby the calipers extend at a non-parallel angle to a track upon the substrate, the image illustrating structure through a brightness profile of gray values along the calipers, the analytic unit performing structure determination <u>based on a second derivative of the brightness</u> profile of gray values and according to at least one of the following criteria:

- a. Level of edge contrast;
- b. Width of structure:
- c. Difference between set vs actual position;
- e. Difference between set vs actual width of the structure:
- g. Difference between set vs actual brightness of the structure; and
- i. Difference between set vs actual brightness of the background.
- (original) The device according to Claim 1, wherein the sensor unit is positioned directly at the exit of the facility for the application of the structure.

- (original) The device according to Claim 1 wherein the sensor unit comprises a video-sensor which records one and/or several picture lines.
- (original) The device according to Claim 1 wherein the illumination module contains a white light illumination module.
- (currently amended) The device according to Claim 1 wherein the illumination module is an LED illumination module radiating the spectral ranges, including at least one of red, blue, green, infrared and/organd ultraviolet.
- (original) The device according to Claim 1 further comprising multiple illumination modules.
- (original) The device according to Claim 1 wherein the analytical unit is
 provided within the sensor unit, whereby the quality criteria are set by means of an external
 control unit.
- (original) The device according to Claim 1 wherein the analytical unit generates a set of hypotheses for each caliper.
- (original) The device according to Claim 8, wherein the analytical unit links neighboring sets of hypotheses.
- 10. (original) Device according to Claim 1 wherein the analytical unit performs the structure determination, in addition, according to at least one of the following criteria:
 - d. Co-linearity of the actual position;
 - f. Co-linearity of the actual width of the structure;

- h. Co-linearity of the actual brightness of the structure; and
- i. Co-linearity of the actual brightness of the background.
- 11. (original) Device according to Claim 1 further comprising a threedimensional display made possible by means of the position of the sensor unit and the structure determination.
- (original) Device according to Claim 1 further comprising a network connection that provides triggering and analysis over one of the Internet or Intranet.
- 13. (currently amended) A method for the detection of a structure applied to a substrate, comprising:
- a) providing an illumination module and a sensor unit on the device that applies the structure to the substrate;
- determining the structure during the application of the structure to the substrate, whereby the structure determination is performed by means of calipers, which extend non-parallel to a track of the substrate and structure; and

displaying a profile of the structure, and corresponding error areas; whereby the structure determination is performed by means of the analysis of <u>a second derivative of</u> the brightness profile of the gray values along the caliper according to at least one of the following criteria:

- a. Level of edge contrast
- b. Width of structure
- c. Difference between set vs actual position

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- e. Difference between set vs actual width of the structure
- g. Difference between set vs actual brightness of the structure
- i. Difference between set vs actual brightness of the background
- 14. (currently amended) The method according to Claim 13, whereby the structure determination is performed with at least one illumination module beingincluding at least one of a white light module and/orand an LED illumination module with different colors.
- 15. (original) The method according to any one of the Claim 13, whereby substrate data are used for structure determination and corresponding error analysis.
- 16. (original) The method according to Claim 13, whereby different error areas can be displayed separately by the visualization software.
- 17. (original) The method according to Claim 13, whereby the structure determination, in addition, is performed according to at least one of the following criteria:
 - d. Co-linearity of the actual position
 - f. Co-linearity of the actual width of the structure
 - h. Co-linearity of the actual brightness of the structure
 - j. Co-linearity of the actual brightness of the background
- 18. (currently amended) A method for the detection of an adhesive extrusion line applied comprising:
 - a) Obtaining an image showing the structure to be detected;
 - b) Placing support points along the structure to be detected;

- c) Connecting the support points to generate a reference line; whereby, in addition, an inspection area along the reference line is defined;
 - d) Defining a range of tolerance along the reference line;
 - e) Determining whether or not the structure is within the range of tolerance; and

placing a set of calipers over a set of data in the image, the structure being determined by means of <u>a second derivative of</u> the brightness profile of the gray values along the calipers.

- 19. (currently amended) The method according to Claim 18, <u>further comprising generating</u> are generated a set of hypotheses for each caliper.
- (original) The method according to Claim 19, wherein neighboring sets of hypotheses are linked.
- (original) The method according to Claim 18, whereby the structure determination, is performed according to at least one of the following criteria:
 - a. Co-linearity of the actual position,
 - Co-linearity of the actual width of the structure,
 - Co-linearity of the actual brightness of the structure,
 - Co-linearity of the actual brightness of the background.
- 22. (original) The method of claim 18, further comprising generating a set of hypotheses for the calipers, and linking neighboring sets of hypotheses.

- 23. (original) The method of claim 18, wherein the structure determination is performed according to at least one of the following criteria:
 - a. Level of edge contrast;
 - b. Width of structure;
 - c. Difference between set vs actual position;
 - d. Difference between set vs actual width of the structure;
 - e. Difference between set vs actual brightness of the structure; and
 - f. Difference between set vs actual brightness of the background.